



State of Utah

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

## Department of Administrative Services

D'ARCY DIXON PIGNANELLI  
Executive Director

### Division of Facilities Construction and Management

F. KEITH STEPAN  
Director

## ADDENDUM

Date: 28 February 2006

To: Contractors

From: Darrell Hunting, DFCM – Project Manager

Reference: Utah National Guard – Ogden Armory  
Roofing, Mechanical, Electrical, and Window Improvements  
DFCM Project No. 05040470

Subject: **Addendum No. 1**

Pages	Cover Page	1 page
	Addendum	5 page
	Addendum drawings	5 pages

<b>Total</b>	<b>11 pages</b>
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***Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.***

State of Utah  
Division of Facilities Construction and Management  
4110 State Office Building  
Salt Lake City, Utah 84114

Utah National Guard  
Ogden Armory-Roofing Improvements  
Project Number: 05040470

**Addendum Number 1**  
27 February, 2006

Information contained within this addendum modifies project drawings and specifications previously issued and becomes a part of the contract documents. Acknowledge receipt of this addendum in your bid proposal.

**Index to Addendum Number 1**

Cover Page  
Architectural Page 1 of 2  
Architectural Page 2 of 2  
Mechanical Page 1 of 1  
Electrical Page 1 of 1  
Electrical Sheets of Construction Documents: E-101, E-102, E-103, E-104 and E-601.

**Harold P. Woodruff Architect\Planner**  
**223 East 800 South**  
**Salt Lake City, Utah 84111**  
**801-355-8684**

## Clarifications and Modifications

1. Bulletproof glass will not be required in any of the new window or door systems.
2. The exterior and interior Entry Lobby door and window system will be replaced with new storefront window framing and doors (along with all of the existing window systems). This new system will be 2" x 4" aluminum storefront as per construction documents. The exterior doors shall have 1" insulated glazing and the interior doors shall have ¼" glazing. All glazing in the doors and sidelight windows shall be clear, tempered. Glazing in the transom shall not be tempered. The Entry Lobby interior and exterior door/window framing shall be configured as per the existing door/window system with the exception that there shall be no framing member between the door panels. Doors shall be installed in the exterior and interior Entry Lobby window framing. The contractor shall be responsible for:
  - a. Field verifying the existing conditions and dimensions.
  - b. Furnishing and installing all accessories and trim for a complete installation.
  - c. Repairing and painting any damage that occurs during removal and installation of window system.
  - d. The building shall be secured if the doors cannot be installed in one day. This may be done by the sequence of interior and exterior door/window system or temporary wall at exterior wall.
  - e. Removal and disposal of existing window system and glazing.

### Door Specifications:

#### A. MATERIALS

1. Materials shall be 6063-T5 alloy and temper (ASTM B221 alloy G.S. 10A-T5). Fasteners, where exposed, shall be aluminum, stainless steel or zinc plated steel in accordance with ASTM A 164. Perimeter anchors shall be aluminum. Glazing gaskets shall be EPDM elastomeric extrusions or vinyl reinforced with fiberglass cord to prevent stretching.
2. Jambs and major portions of doors shall have minimum wall thickness of .188".
3. Face dimensions of door components shall be 3-1/2" for vertical stiles, 3-3/16" for top rail and 10" (plus ½" for glass stops) for bottom rail. Frame sections shall be tubular members and shall provide for flush glazing of sidelites and transom areas.
4. Applied stops shall be allowed at header bar only.
5. Overall dimension of framing members shall be 2" x 4-1/2" to accommodate 1" glass.
6. Frames for offset doors shall feature snap-in door stops with continuous weatherstripping.
7. Screws, nuts, washers, bolts, rivets and other fastening devices, shall be aluminum, stainless steel or other non-corrosive materials.

#### B. DOOR CONSTRUCTION

Door stiles and rails shall be tubular sections, sections, accurately joined at corners with heavy concealed reinforced brackets secured with bolts and screws, and shall be MIG welded. Doors shall have snap-in stops with bulb glazing gasket both sides of glass. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism, located in the top rail near the lock stile, which provides for minor clearance adjustments after installation. Door bottom rail shall receive a concealed weatherstripping insert.

#### C. HARDWARE

Hardware for aluminum door and door frame shall be the entrance manufacturers standard. Coordinate and install all portions of the existing security entry system.

1. 1 ½ pair butt hinges per door leaf.
  2. Key lock/cylinder per door leaf.
  3. LCN 4041 closer per door leaf.
  4. Push/pull per door leaf.
  5. Von Duprin panic hardware 98NL-OP per door leaf.
3. Existing roof drains are to removed and replaced with new roof drains.
  4. The roof edge flashing details in the construction documents indicate that the lower portion of the prefinished metal is to remain.  
The contractor is to replace all the metal on the fascia (the lower section and the cover clip). The fascia metal is to be prefinished metal. The prefinished metal finish for the fascia, equipment screen and aluminum storefront window system may not be same finish.
  5. See attached mechanical and electrical addendum.



## Mechanical Addendum #1

**To:** Dan DeZotell  
**Company:** Harold Woodruff Architect  
223 East 800 South  
Salt Lake City, Utah 84111

**Telephone:** 801-355-8684  
**Fax:** 801-359-3780

**Copies to:**

**From:** Ken Ekenstam  
**Job:** Ogden Armory Roofing  
Improvements  
**Re:** Mechanical Addendum  
**Job Number:** 20050433  
**Date:** February 27, 2006

**Telephone:** 801-401-8480  
**Toll Free:** 800-678-7077  
**Fax:** 801-401-9480  
**E-mail:** kde@spectrum-engineers.com  
**Page:** 1 of 1

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### DRAWINGS

#### SHEET M-101

1. Replace existing door grille in exercise room with new 26" x 24" Price model STG-1 door grille. The exercise room is located at the same location as exhaust fan EF-1.

#### SHEET M-410

1. Refer to Rooftop Unit Schedule: Delete note 5.
2. Refer to Exhaust Fan Schedule: The exhaust fan horsepower is  $\frac{1}{4}$ .

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### Spectrum Engineers

Mechanical Engineering ♦ Electrical Engineering ♦ Technology Design ♦ Lighting Design ♦ Theater Design  
Acoustical Engineering ♦ Building Commissioning ♦ Power Engineering

175 South Main Street, Suite 300, Salt Lake City, Utah 84111  
801-328-5151 ♦ 800-678-7077 ♦ FAX 801-328-5155  
[www.spectrum-engineers.com](http://www.spectrum-engineers.com)

# OGDEN ARMORY ROOFING IMPROVEMENTS

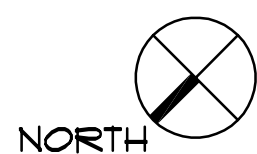
DFCM PROJECT NO. 05040470

February 24, 2005

## ELECTRICAL ADDENDUM ITEMS

1. Change Overhead Electrical Service to Underground Electrical Service.
  - A. Change Overhead Electrical Service to Underground Electrical Service as shown on Electrical Drawings, Revision No. 1.
  - B. Work for underground electrical service includes, but is not limited to, the following:
    - 1) New underground conduit from existing power pole to new pad mounted transformer.
    - 2) New precast concrete vault with precast concrete lid.
    - 3) New separately mounted current transformer cabinet, meter base, and main breaker.
    - 4) New underground secondary conduit and conductors as indicated on drawings.
    - 5) Sawcut, remove, and replace existing asphalt paving and concrete slabs necessary to install new underground electrical service.
    - 6) Installation of new underground electrical service in accordance with Utah Power Electrical Service Requirements Manual dated August 2005.
    - 7) Coordination with Utah Power for installation of new electrical service in a timely manner. Utah Power Work Order Number and contact information will be furnished to the contractor after the contract is awarded. Contractors are not to contact Utah Power during bidding.
  - C. Delete references to Overhead Electrical Service in Specification Section 16400, Paragraph 2.2. Provide underground electrical service indicated on Electrical Drawings, Revision No. 1.
  - D. Delete references to Metering Switchboard in Specification Section 16400, Paragraph 2.3, and Section 16470 Paragraph 2.2. Provide separate metering cabinet, meter base, and main breaker indicated on Electrical Drawings, Revision No. 1.
  - E. Utah Power costs for installation of new underground electrical service will be paid by the Owner directly to Utah Power and is not included in the contract.
2. Change Conduit Routing to Rooftop AC Units RTU-1 and RTU-2.
  - A. Change conduit routing to Rooftop AC Unit RTU-1 and RTU-2 to avoid installation of exposed conduit in the Main Entry Vestibule. See First Floor Electrical Plan, Sheet E-102, Revision No. 1.
3. Add Switch for New Exhaust Fan EF-1.
  - A. Provide single pole switch in Exercise Room to control new Exhaust Fan EF-1. See Second Floor Electrical Plan, Sheet E-103, Revision No. 1.
4. Attachments:
  - A. Sheets E-101, E-102, E-103, E-104 and E-601, Revision No. 1 dated Feb. 24, 2006.

END OF ELECTRICAL ADDENDUM ITEMS



1 PANEL 'BR' SCHEDULE MOVED FROM SHEET E-601, NO CHANGE TO SCHEDULE.

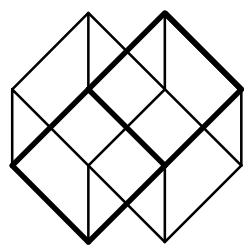
SEE ENLARGED ELECTRICAL PLAN (A)  
(E-101)



16 NEW 3/4" x 10'-0" COPPER GROUND RODS. PROVIDE #3/0 BARE COPPER GROUND CONDUCTOR IN 1-1/2" PVC CONDUIT SLEEVE TO NEW MAIN BREAKER GROUND BUS.

**E-101**

SHEET	OF
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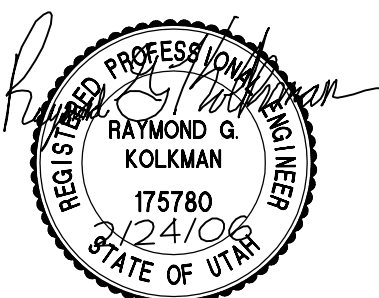
Harold P. Woodruff Architect/Planner  
233 East 800 South  
Salt Lake City, Utah 84111  
Phone: 801-355-8684  
Fax: 801-359-3780

## CONSULTANTS:

Structural Engineer:  
George H. Hansen, Inc.  
254 East First South  
Salt Lake City, Utah 84111  
Phone: 801-519-2111

Mechanical Engineer:  
Spectrum Engineers  
175 South Main Street, Suite 300  
Salt Lake City, Utah 84111  
Phone: 801-401-8480

Electrical Engineer:  
Thomas & Kolkman Eng. Co. Inc.  
64 West 1700 South  
Salt Lake City, Utah 84115  
Phone: 801-484-8161



PROJECT TITLE:

## Ogden Armory-Roofing Improvements

OWNER:

**State of Utah-DFCM**  
**Utah National Guard**  
**Salt Lake City, Utah**

1	2/24/06	ADDENDUM NO. 1
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MARK	DATE	DESCRIPTION
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ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: JAN. 30, 2006

DFCM PROJECT NO: 05040470

CONTRACT NO:	057039
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CAD PROJECT NO: N/A

CAD DWG FILE: E-101.dwg

ARCH PROJECT FILE: 0505.pj\0505.db\cps.dr

DRAWN BY: W.B.G.

CHK'D BY: R.G.K.

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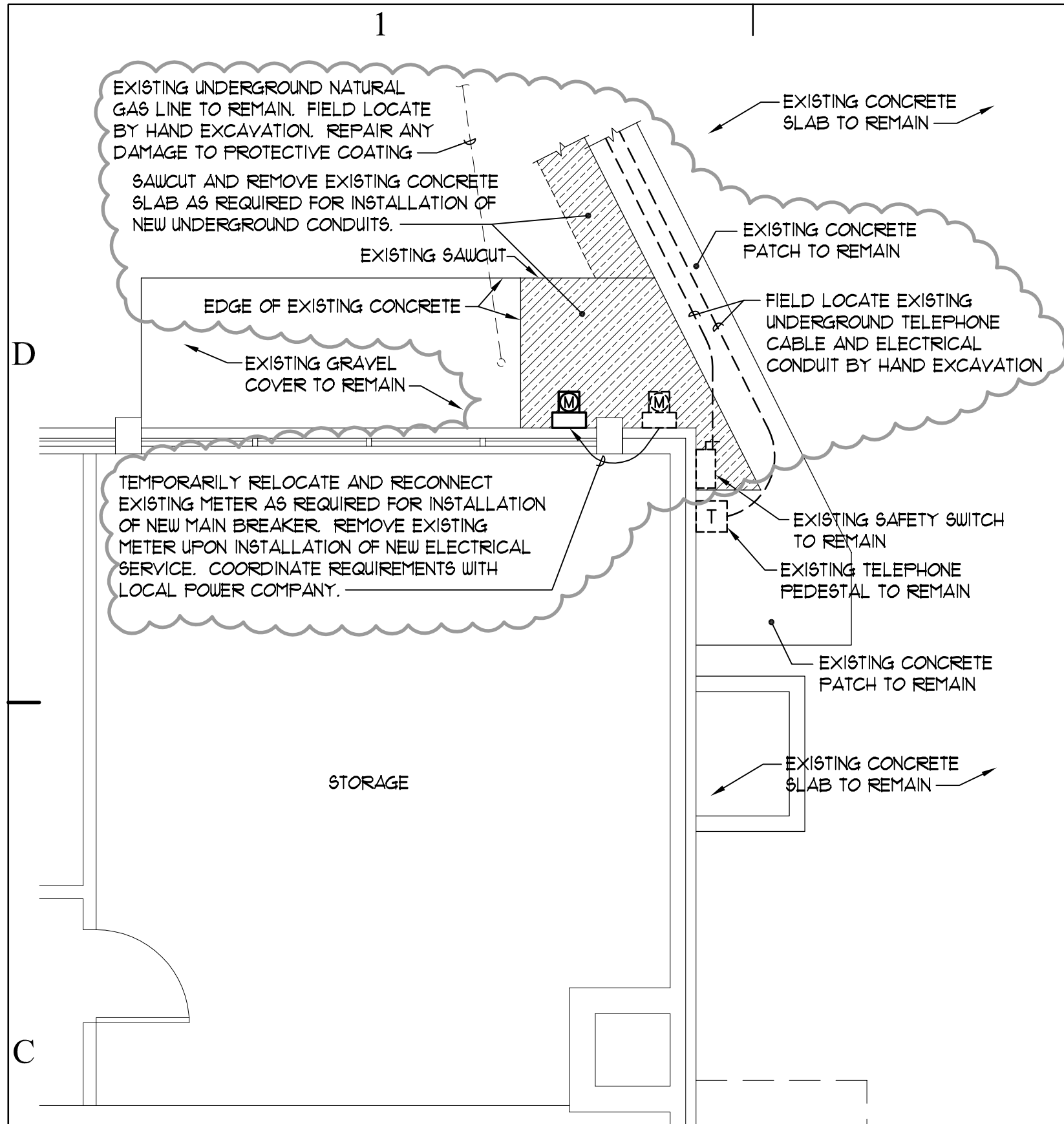
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## LOWER LEVEL ELECTRICAL PLAN

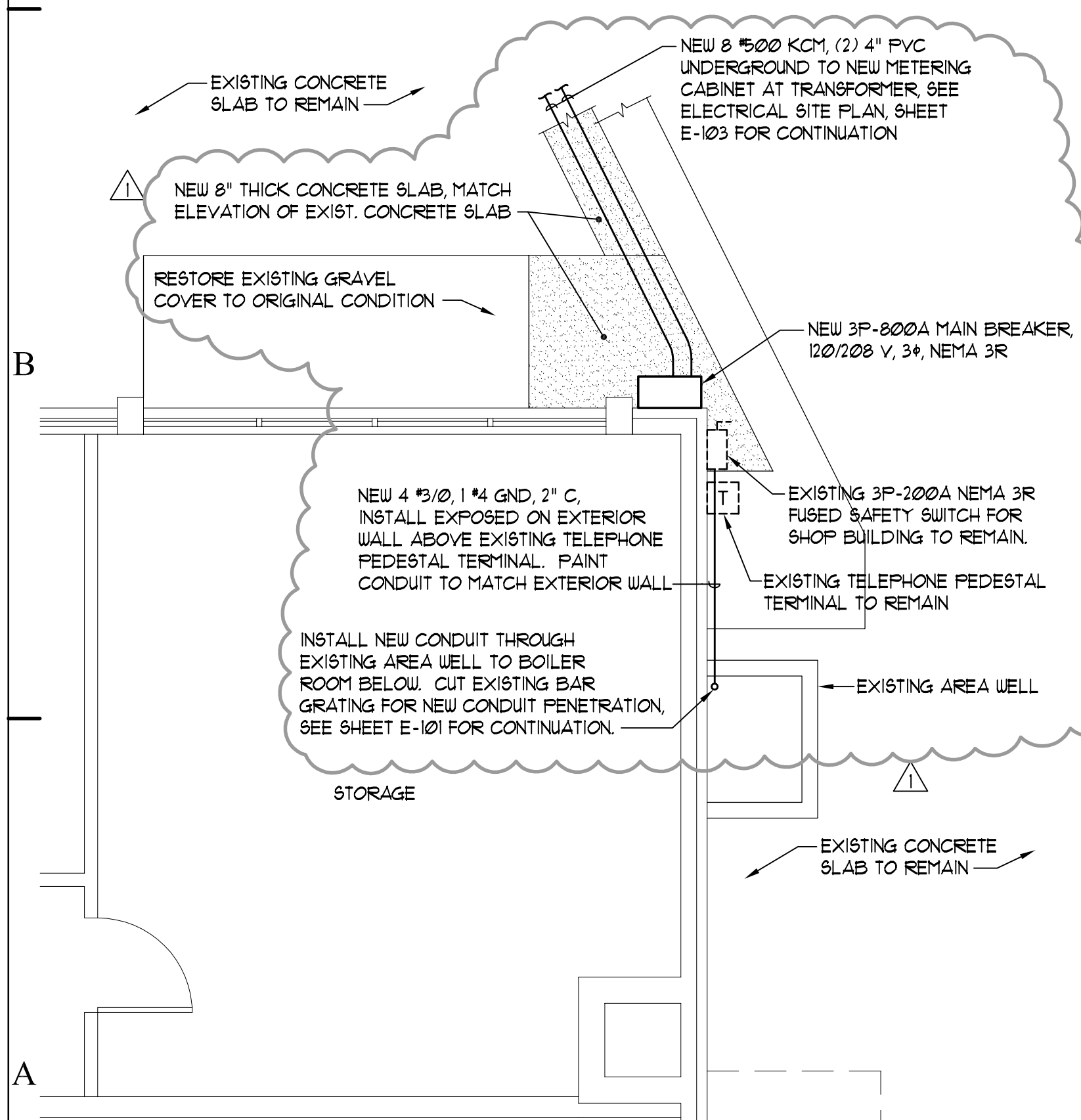
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**E-101**

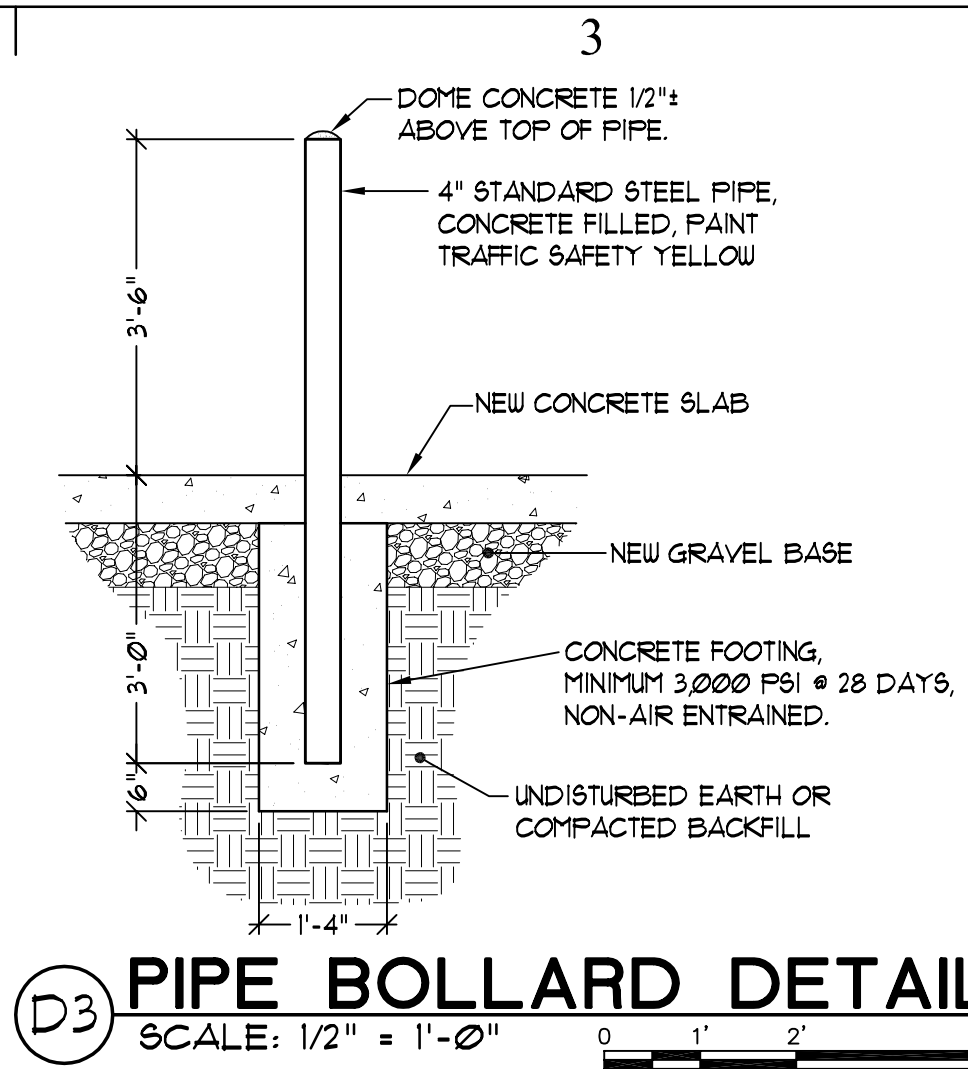
SHEET	OF
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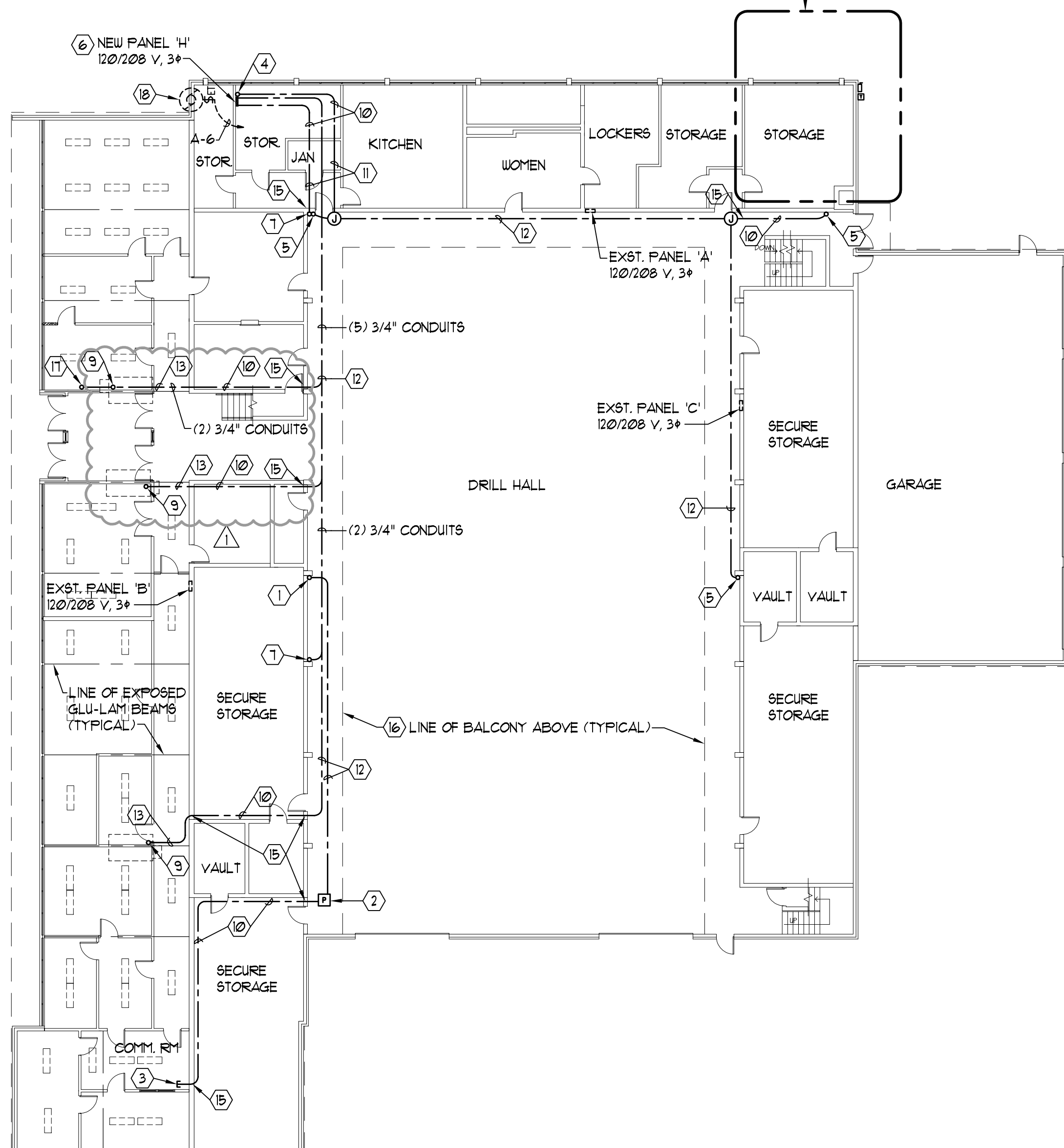
**C1 ENLARGED DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**A1 ENLARGED ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"



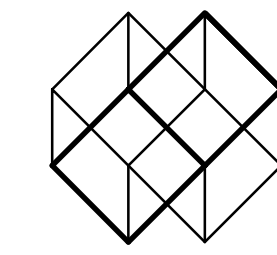
**D3 PIPE BOLLARD DETAIL**  
SCALE: 1/2" = 1'-0"



**A3 FIRST FLOOR ELECTRICAL PLAN**  
SCALE: 1/16" = 1'-0"

- GENERAL ELECTRICAL NOTES:**
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
  - DEMOLITION IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED CONDUIT WIRING, JUNCTION BOXES, OUTLETS, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
  - TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.
  - COORDINATE NEW MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
  - INDICATED NEW CONDUIT ROUTING IS APPROXIMATE ONLY. FIELD COORDINATE NEW CONDUIT ROUTING WITH EXISTING LIGHT FIXTURES, EXISTING CONDUITS, EXISTING PIPING, ETC.
  - PAINT ALL NEW EXPOSED CONDUIT TO MATCH SURROUNDING SURFACES INCLUDING DECORATIVE PAINT BANDS ON EXISTING WALLS. COORDINATE PAINT COLOR SELECTION WITH ARCHITECT.

- KEYED NOTES:**
- NEW 1-1/4" ANTENNA CONDUIT WITH FULL STRING FROM SECOND LEVEL. SEE SHEET E-103 FOR CONTINUATION.
  - PROVIDE MINIMUM 12" x 12" x 6" FULLBOXES AS REQUIRED FOR NEW ANTENNA CONDUIT RUN.
  - TERMINATE ANTENNA CONDUIT WITH INSULATED BUSHING IN EXISTING COMMUNICATION OFFICE. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND UTAH NATIONAL GUARD.
  - NEW #8 ANTENNA GROUND, 3/4" CONDUIT, FROM PIPE TUNNEL BELOW. SEE SHEET E-101 FOR CONTINUATION.
  - NEW #8 ANTENNA GROUND, 3/4" CONDUIT UP TO SECOND LEVEL. SEE SHEET E-103 FOR CONTINUATION.
  - INSTALL NEW PANEL 'H' ADJACENT TO EXISTING SHELVING TO AVOID EXISTING PIPING ABOVE THE PANEL LOCATION. SEE SHEET E-101 FOR ROUTING OF NEW FEEDER CONDUIT FROM PIPING TUNNEL BELOW.
  - (2) 3/4" CONDUITS UP TO SECOND LEVEL FOR ROOFTOP AIR CONDITIONING UNITS ON MID-LEVEL ROOF. SEE SHEET E-103 FOR CONTINUATION.
  - 3/4" CONDUIT UP TO SECOND LEVEL FOR NEW ROOFTOP AIR CONDITIONING UNIT ON MID-LEVEL ROOF. SEE SHEET E-103 FOR CONTINUATION.
  - 3/4" CONDUIT THROUGH EXISTING WOOD DECK ROOF TO NEW ROOFTOP AIR CONDITIONING UNIT ON LOW-LEVEL ROOF. INSTALL CONDUIT WITHIN AREA OF NEW ROOF CURB. SEE SHEET E-104 FOR CONTINUATION.
  - INSTALL NEW CONDUIT EXPOSED ON EXISTING CONCRETE PAN CEILING AND PAINT TO MATCH CEILING.
  - INSTALL NEW CONDUIT CONCEALED ABOVE EXISTING CEILING.
  - INSTALL NEW CONDUITS EXPOSED ON BOTTOM OF EXISTING BALCONY AND PAINT TO MATCH EXISTING CEILING.
  - INSTALL NEW CONDUIT EXPOSED ON SIDE OF EXPOSED GLU-LAM BEAM AND PAINT TO MATCH BEAM.
  - INSTALL NEW CONDUIT EXPOSED ON BOTTOM OF EXPOSED WOOD ROOF DECK CEILING AND PAINT TO MATCH CEILING.
  - DRILL EXISTING MASONRY BLOCK WALL BELOW EXISTING BOND BEAM FOR NEW CONDUIT PENETRATION. FIRE SEAL NEW CONDUIT PENETRATION.
  - DRILL EXISTING CONCRETE BALCONY FOR NEW CONDUIT PENETRATIONS TO SECOND LEVEL BEING CAREFUL NOT TO CUT THROUGH EXISTING REINFORCING STEEL. SEAL CONDUIT PENETRATION WITH NON-SHRINK GROUT PAINTED TO MATCH SURROUNDING SURFACES.
  - 3/4" CONDUIT THROUGH EXISTING WOOD DECK ROOF TO NEW FLAGPOLE FLOODLIGHTS ON LOW-LEVEL ROOF. SEE SHEET E-104 FOR CONTINUATION.
  - REMOVE EXISTING ELECTRICAL SERVICE TO EXISTING WALL MOUNTED EXHAUST FAN TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.



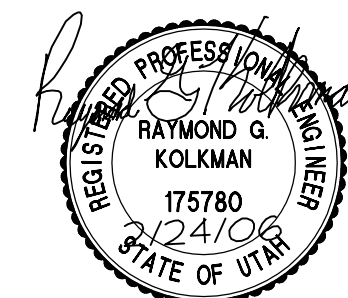
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**CONSULTANTS:**

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64 West 1700 South  
Salt Lake City, Utah 84115  
Phone: 801-484-8161



**PROJECT TITLE:**

**Ogden Armory-  
Roofing  
Improvements**

**OWNER:**  
**State of Utah-DFCM**  
**Utah National Guard**  
**Salt Lake City, Utah**

MARK	DATE	DESCRIPTION
1	2/22/06	ADDENDUM NO. 1

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: JAN. 30, 2006

DFCM PROJECT NO:	05040470
CONTRACT NO:	057039
CAD PROJECT NO:	N/A
CAD DWG FILE:	E-102.dwg
ARCH PROJECT FILE:	0505.p\0505.db\cps.dr
DRAWN BY:	W.B.G.
CHK'D BY:	R.G.K.
COPYRIGHT:	State of Utah

**SHEET TITLE**

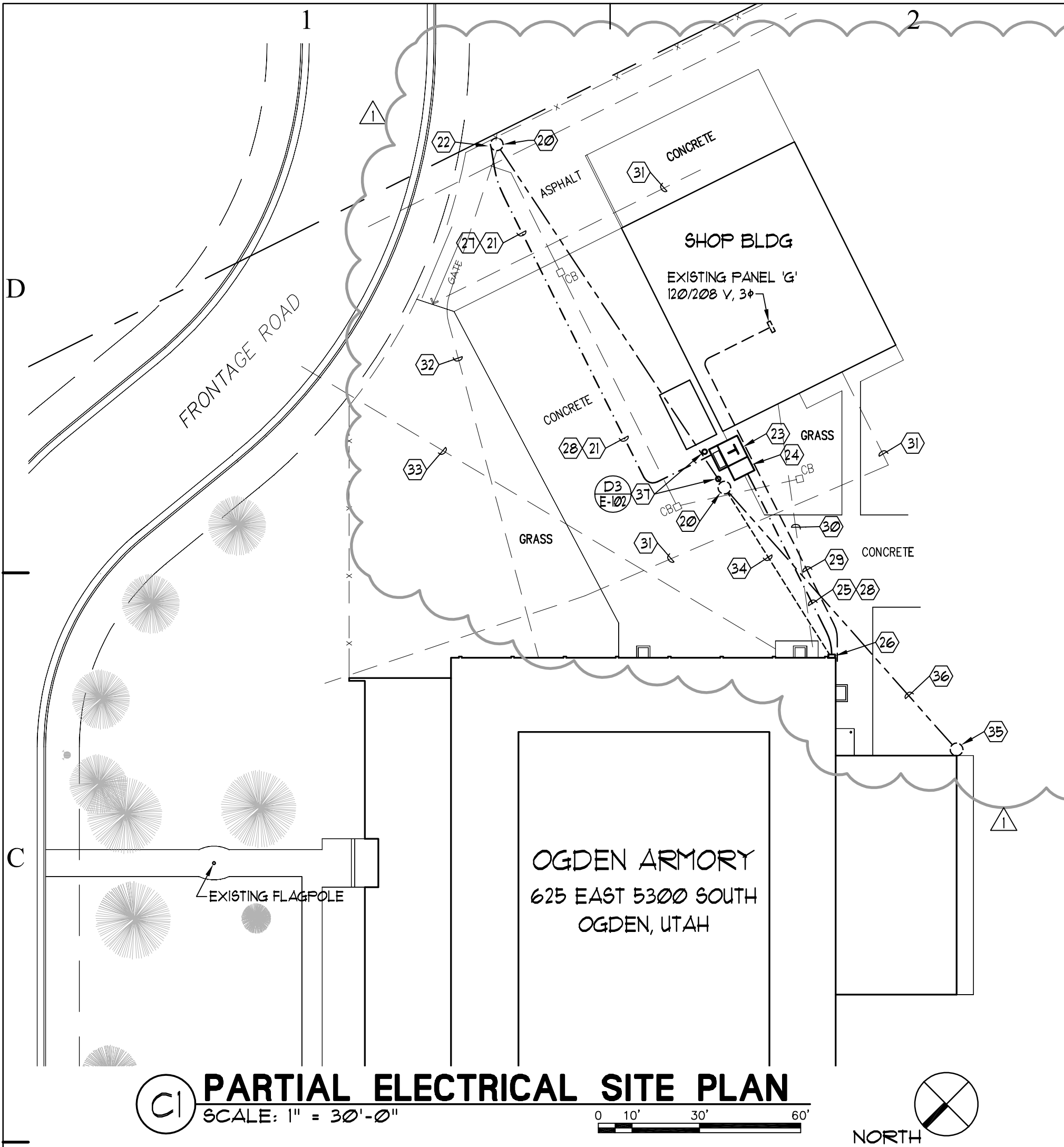
**FIRST FLOOR  
ELECTRICAL PLAN**

**SHEET NUMBER**

**E-102**

**SHEET OF**





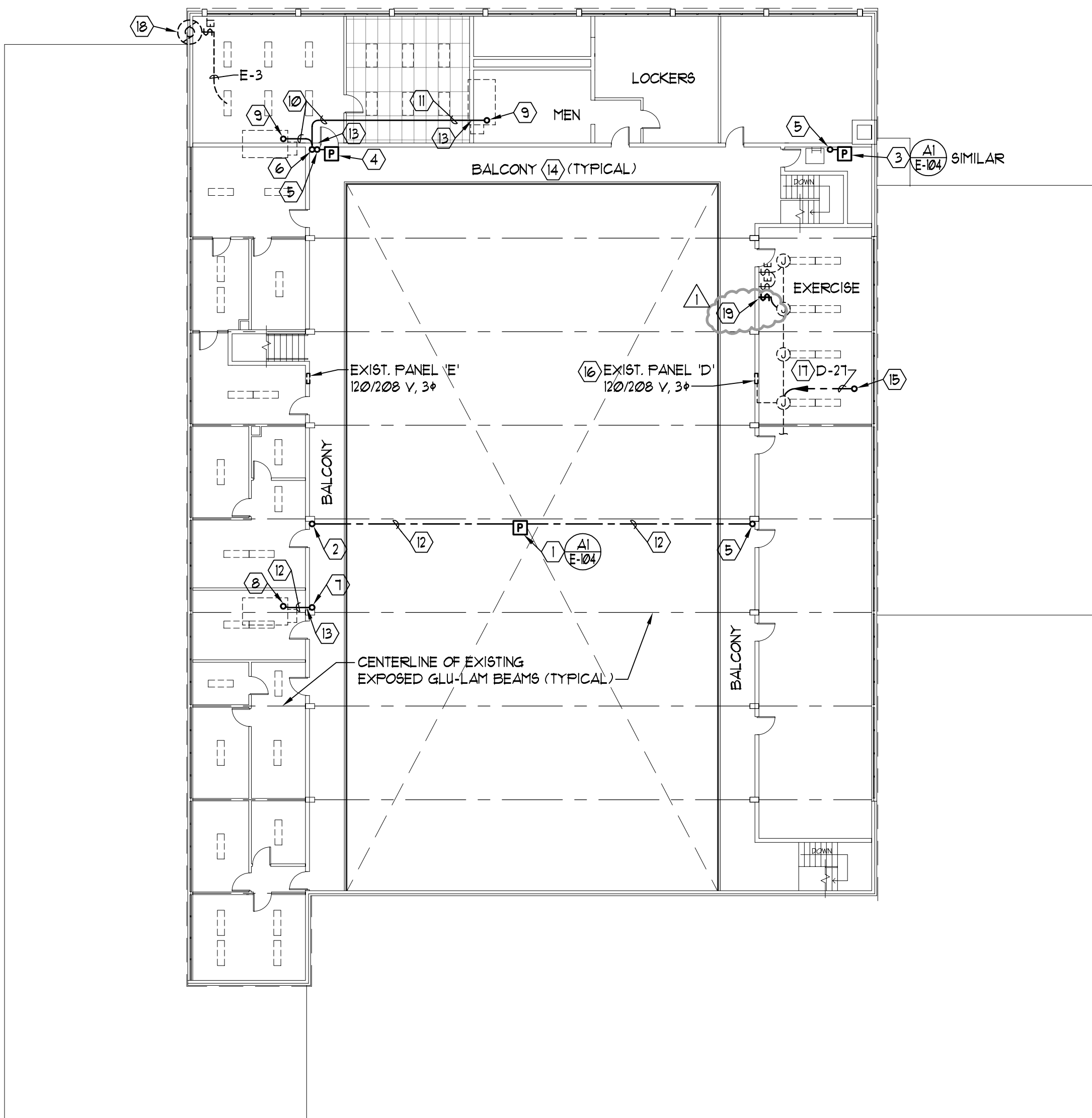
SYMBOL LIST	
SYMBOL	DESCRIPTION
	NEW FLOODLIGHT
	EXISTING FLOODLIGHT
	NEW PHOTOCCELL
	NEW JUNCTION BOX
	NEW PULL BOX
	NEW DUPLEX RECEPTACLE
	EXISTING DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	3 PHASE, 4 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
	NEW BRANCH CIRCUIT CONCEALED ABOVE EXISTING CEILING
	NEW BRANCH CIRCUIT EXPOSED ON WALL OR CEILING, PAINT TO MATCH
	EXISTING BRANCH CIRCUIT
	NEW PANELBOARD
	EXISTING PANELBOARD
	NEW MOTOR
	EXISTING MOTOR
	NEW MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION
	EXISTING SINGLE POLE MANUAL MOTOR DISCONNECT SWITCH
	EXISTING SAFETY SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
	NEW SAFETY SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
	KEYED NOTE SYMBOL
	EQUIPMENT SCHEDULE SYMBOL
	FIXTURE SCHEDULE SYMBOL
	DETAIL OR SECTION NUMBER DESIGNATED BY SHEET COORDINATES
	SHEET ON WHICH DETAIL OR SECTION IS SHOWN
	INDICATES ITEM IN WEATHERPROOF (NEMA 3R MINIMUM) ENCLOSURE

**SITE PLAN KEYED NOTES:**

- 20 EXISTING POWER COMPANY POWER POLE TO REMAIN.
- 21 NEW 4" PVC PRIMARY SERVICE CONDUIT MINIMUM 30" BELOW GRADE BY CONTRACTOR. PRIMARY SERVICE CABLES TO BE PROVIDED BY POWER CO.
- 22 TERMINATE NEW 4" CONDUIT WITH 36" RADIUS RIGID STEEL ELBOW AT BASE OF POWER POLE AS DIRECTED BY POWER COMPANY.
- 23 NEW PAD MOUNT TRANSFORMER BY POWER COMPANY. CONTRACTOR TO PROVIDE NEW ANCHOR OR EQUAL PRECAST CONCRETE VAULT WITH PRECAST LID IN ACCORDANCE WITH POWER COMPANY REQUIREMENTS. FIELD VERIFY EXACT LOCATION OF TRANSFORMER WITH OWNER AND POWER COMPANY PRIOR TO EXCAVATION.
- 24 NEW POST MOUNTED METERING CABINET AND METER SOCKET, SEE POWER RISER DIAGRAM, SHEET E-601, FOR REQUIREMENTS.
- 25 NEW 8 500 KCM, (2) 4" PVC, MINIMUM 24" BELOW GRADE BY CONTRACTOR.
- 26 NEW MAIN BREAKER, SEE POWER RISER DIAGRAM, SHEET E-601 FOR REQUIREMENTS.
- 27 SAWCUT AND REMOVE EXISTING ASPHALT PAVING TO INSTALL NEW UNDERGROUND CONDUIT. REPLACE WITH NEW ASPHALT PAVING AS REQUIRED TO MATCH EXISTING CONDITIONS.
- 28 SAWCUT AND REMOVE EXISTING 1-1/2" THICK CONCRETE SLAB TO INSTALL NEW UNDERGROUND CONDUIT AND NEW TRANSFORMER VAULT. REPLACE WITH NEW CONCRETE SLAB AND NEW SUBBASE AS REQUIRED TO MATCH EXISTING CONDITIONS.
- 29 EXISTING UNDERGROUND ELECTRICAL AND TELEPHONE SERVICES TO SHOP BUILDING TO REMAIN.
- 30 EXISTING UNDERGROUND GAS LINE TO SHOP BUILDING TO REMAIN.
- 31 EXISTING UNDERGROUND SANITARY SEWER PIPE TO SHOP BUILDING TO REMAIN.
- 32 EXISTING UNDERGROUND TELEPHONE SERVICE TO MAIN BUILDING TO REMAIN.
- 33 EXISTING UNDERGROUND GAS LINE TO MAIN BUILDING TO REMAIN.

**SITE PLAN GENERAL NOTES:**

1. BURY UNDERGROUND PRIMARY CONDUIT MINIMUM 30" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
2. BURY UNDERGROUND SECONDARY CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
3. USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
4. PROVIDE MINIMUM 36" RADIUS GRC ELBOWS FOR NEW ELECTRICAL SERVICE CONDUITS.
5. PROVIDE 1/4" NYLON FULL ROPE IN NEW ELECTRICAL SERVICE CONDUITS FOR INSTALLATION OF CONDUCTORS BY POWER COMPANY.
6. COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY PRIOR TO BEGINNING WORK. UTAH POWER WORK ORDER NUMBER AND CONTACT INFORMATION WILL BE PROVIDED TO CONTRACTOR.
7. EXISTING UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. LOCATIONS ARE BASED ON EXISTING BUILDING DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. CONTACT BLUE STAKES TO LOCATE UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
8. IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES TO MATCH ORIGINAL CONDITION INCLUDING IRRIGATION SPRINKLERS, PROTECTIVE COATINGS ON GAS LINES, ETC. REPLACE EXISTING GRASS SOD TO MATCH ORIGINAL CONDITION.
- 34 EXISTING OVERHEAD SECONDARY SERVICE CABLE TO BE REMOVED BY POWER CO.
- 35 EXISTING LEASE LIGHT POLES TO REMAIN.
- 36 EXISTING OVERHEAD CABLE TO LEASE LIGHT POLES TO REMAIN.
- 37 PROVIDE CONCRETE FILLED PIPE BOLLARDS TO PROTECT TRANSFORMER AS REQUIRED BY POWER COMPANY.



D

C

B

A

## EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS HP.	BREAKER	STARTERS FURNISH/INSTALL	SIZE	AUX. CONT.	LOCATION
RTU-1	ROOFTOP AC UNIT	H-13	208	3	18.1 AMPS	3P-25A (NOTE 1)	M M M		-	LOW ROOF
RTU-2	ROOFTOP AC UNIT	H-19	208	3	22.1 AMPS	3P-30A (NOTE 1)	M M M		-	LOW ROOF
RTU-3	ROOFTOP AC UNIT	H-25	208	3	25.1 AMPS	3P-35A (NOTE 1)	M M M		-	LOW ROOF
RTU-4	ROOFTOP AC UNIT	H-26	208	3	25.1 AMPS	3P-35A (NOTE 1)	M M M		-	MID LEVEL ROOF
RTU-5	ROOFTOP AC UNIT	H-20	208	3	25.1 AMPS	3P-30A (NOTE 1)	M M M		-	MID LEVEL ROOF
RTU-6	ROOFTOP AC UNIT	H-14	208	3	22.1 AMPS	3P-30A (NOTE 1)	M M M		-	MID LEVEL ROOF
EF-1	ROOFTOP EXHAUST FAN	D-21	120	1	1/6 HP	1P-15A	E E	\$100		MID LEVEL ROOF

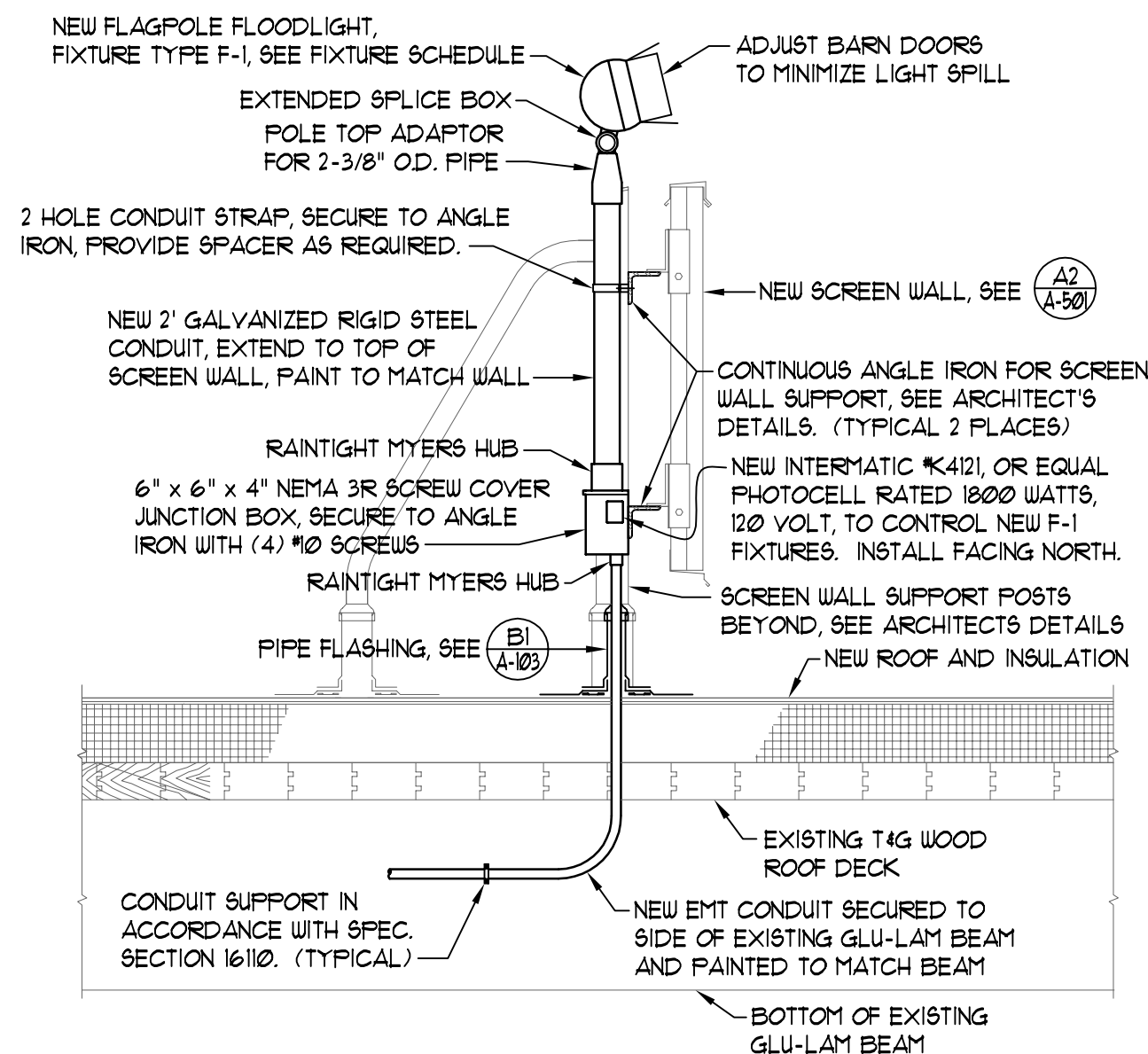
### NOTES:

- BREAKER/FUSE RATING BASED ON SPECIFIED CARRIER ROOFTOP UNITS PUBLISHED LITERATURE. PROVIDE BREAKER/FUSE RATING IN ACCORDANCE WITH ROOFTOP UNIT NAMEPLATE FURNISHED TO JOB SITE. COORDINATE WITH MECHANICAL CONTRACTOR.

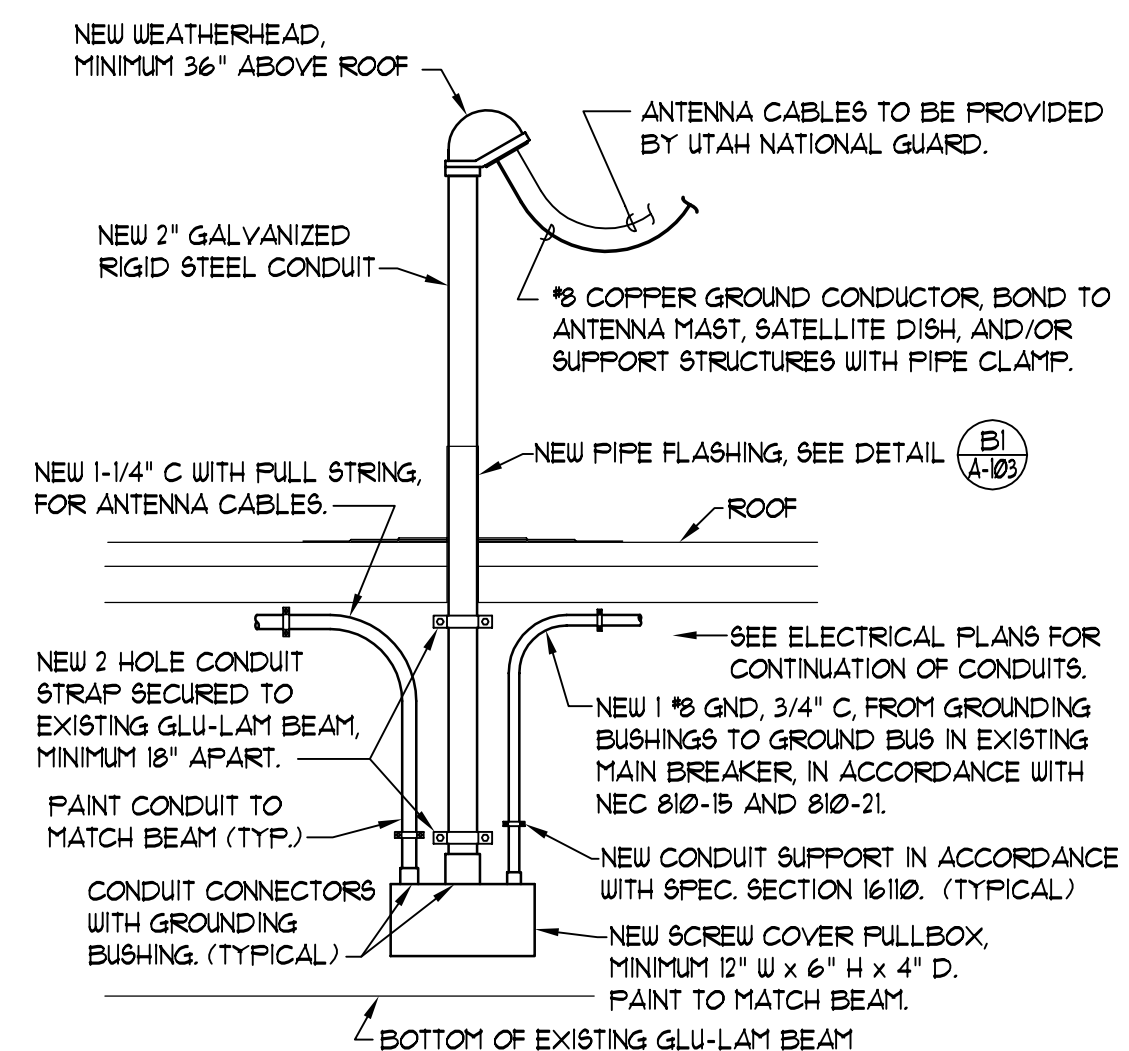
E - ELECTRICAL CONTRACTOR  
M - MECHANICAL CONTRACTOR

## FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
F-1	GARDCO GE LIGHTING  INVUE LITHONIA LSI INDUSTRIES STERNER	DF7-SM-NSP-100MH-120-NP-BD/PTA CFSX-10M-M-0-H-1-4-GREY-K/ BDA-BLCK-CFSX VFS-K-100MH-120-NS-SF-BD-AP KLF2-100M-SP-120-DNA-BD DRS-SP15-100MH-FP-MT-PLP/PT-BD PL6-100MH-SP-120-C-SV-N-BD-AL	METAL HALIDE ARCHITECTURAL FLOODLIGHT WITH CAST ALUMINUM HOUSING, NATURAL ALUMINUM PAINT FINISH, NARROW SPOT LIGHT DISTRIBUTION, BARN DOOR VISOR, 120 VOLT HIGH POWER FACTOR BALLAST AND POLE TOP ADAPTOR FOR 2-3/8" OD PIPE.	100 W MH ED-17



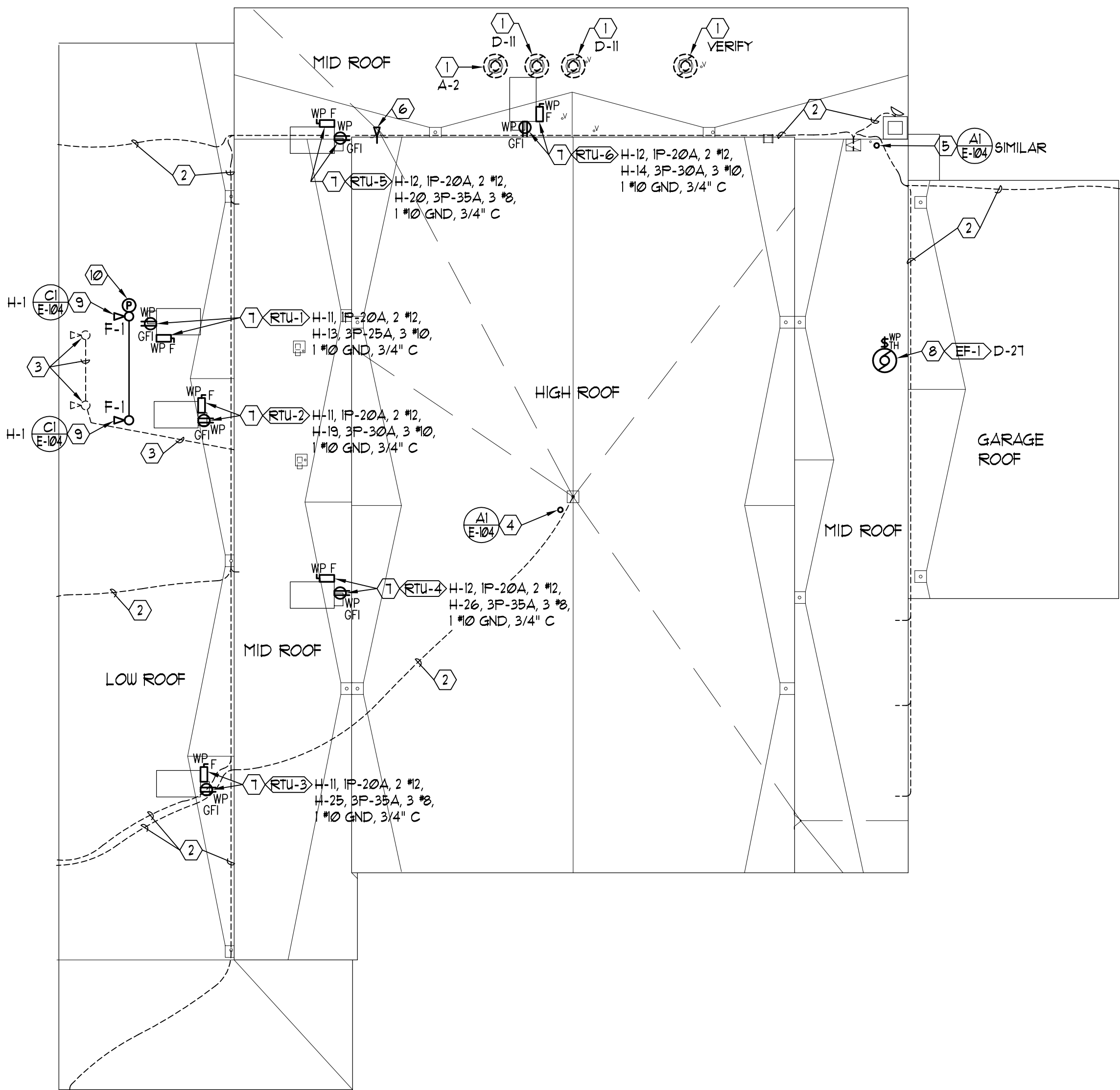
**FLOODLIGHT MOUNTING DETAIL**  
SCALE: 3/4" = 1'-0"



**ANTENNA MAST DETAIL**  
SCALE: 3/4" = 1'-0"

NEW PANEL 'H'										10,000 A. I. C., FULLY RATED 120/208 VOLT, 3 PHASE, 4 WIRE SURFACE MOUNTED									
CIR NO.	BRKR P	DESCRIPTION	NO. LTS	CIRCUIT LOAD	PHASE	LOAD - VA	PHASE	LOAD	NO. REC	DESCRIPTION	BRKR P	CIR NO.	BRKR P	DESCRIPTION	NO. LTS	CIRCUIT LOAD	PHASE	LOAD	NO. REC
1	20	FLAGPOLE LIGHTS ON ROOF	2	260		260				SPARE	1	20	2						
3		SPARE				0				SPARE									
5		SPARE				0				SPARE									
7		SPARE				0				SPARE									
9		SPARE				0				SPARE									
11	20	REC, LOW ROOF AC UNITS	3	540				1,080	540	3	REC, MID ROOF AC UNITS	1	20	12					
13	25	RTU-1, EAST LOW ROOF		2,245		4,900			2,655		RTU-6, EAST MID ROOF	3	30	14					
15	-	-		2,245				4,900	2,655	-	-	-	-	16					
17	-	-		2,245					2,655	-	-	-	-	18					
19	30	RTU-2, CENTER LOW ROOF		2,655		5,740			3,085		RTU-5, CENTER MID ROOF	3	35	20					
21	-	-		2,655				5,740	3,085	-	-	-	-	22					
23	-	-		2,655					3,085	-	-	-	-	24					
25	35	RTU-3, WEST LOW ROOF		3,085		6,170			3,085		RTU-4, WEST MID ROOF	3	35	26					
27	-	-		3,085				6,170	3,085	-	-	-	-	28					
29	-	-		3,085				6,170	3,085	-	-	-	-	30					
31	1	SPACE				0					SPACE	1		32					
33						0								34					
35						0								36					
37						0								38					
39						0								40					
41	1	SPACE				0					SPACE	1		42					
TOTAL CONNECTED LOAD:						51,770 VA		144 AMPS											
CALCULATED FEEDER DEMAND, NEC 220:						54,149 VA		150 AMPS	FEEDER: 4 #3/0, 1 #4 GND, 2" C										

△ PANEL 'H' SCHEDULE MOVED FROM SHEET E-601, NO CHANGE TO SCHEDULE.



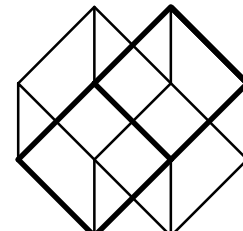
**ROOF ELECTRICAL PLAN**  
SCALE: 1/16" = 1'-0"

### GENERAL ELECTRICAL NOTES:

- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
- DEMOLITION IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED CONDUIT WIRING, JUNCTION BOXES, OUTLETS, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
- TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.
- COORDINATE NEW MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- INDICATED NEW CONDUIT ROUTING IS APPROXIMATE ONLY. FIELD COORDINATE NEW CONDUIT ROUTING WITH EXISTING LIGHT FIXTURES, EXISTING CONDUITS, EXISTING PIPING, ETC.
- COORDINATE EXISTING ROOFTOP EQUIPMENT LOCATIONS WITH ARCHITECTURAL ROOF PLAN, SHEET A-101.
- REPLACE ALL EXISTING LIQUID-TIGHT FLEXIBLE CONDUIT AT EXISTING EQUIPMENT CONNECTIONS ON ROOF WITH NEW LIQUID-TIGHT FLEXIBLE STEEL CONDUIT.

### KEYED NOTES:

- DISCONNECT ELECTRICAL SERVICE TO EXISTING ROOFTOP EXHAUST FAN TO ALLOW EQUIPMENT REMOVAL AND INSTALLATION OF NEW ROOF. RECONNECT ELECTRICAL SERVICE UPON REINSTALLATION OF EQUIPMENT. EQUIPMENT WILL BE RAISED FOR INSTALLATION OF NEW ROOF. EXTEND EXISTING CONDUIT TO RAISED EQUIPMENT AND PROVIDE NEW CONDUCTORS OF SUFFICIENT LENGTH REQUIRED TO RECONNECT THE EQUIPMENT.
- REMOVE EXISTING ANTENNA CABLES AND REPAIR EXISTING WINDOW FRAME AND/OR EXTERIOR WALL PENETRATIONS AS REQUIRED TO MATCH SURROUNDING SURFACES WHERE CABLES ARE REMOVED. COORDINATE REQUIREMENTS WITH ARCHITECT, GENERAL CONTRACTOR, AND UTAH NATIONAL GUARD.
- REMOVE EXISTING FLAGPOLE FLOODLIGHTS INCLUDED ALL ASSOCIATED WIRING, CONDUIT, BOXES, ETC. REPAIR EXISTING WALL TO MATCH SURROUNDING SURFACES AT EXISTING CONDUIT PENETRATION.
- NEW WEATHERHEAD MAST AS SHOWN ON DETAIL A/E-104 FOR HIGH ROOF ANTENNA. PROVIDE 1-1/4" CONDUIT WITH FULL STRING TO EXISTING COMMUNICATION ROOM. SEE SHEET E-103 FOR CONTINUATION OF CONDUIT INSIDE OF BUILDING.
- NEW WEATHERHEAD MAST FOR EXISTING SATELLITE DISH, SIMILAR TO DETAIL A/E-104 EXCEPT WITH MINIMUM 8" x 8" x 4" SCREW COVER FULLBOX. EXISTING COMMUNICATION CABLES WILL BE RELOCATED TO NEW FULLBOX BY UTAH NATIONAL GUARD. SEE SHEET E-103 FOR LOCATION OF INTERIOR FULLBOX.
- NEW WEATHERHEAD FOR RADIO ANTENNA 12" BELOW HIGH LEVEL ROOF. PROVIDE 1" CONDUIT THROUGH EXTERIOR CONCRETE BLOCK WALL TO NEW FULLBOX ON INTERIOR OF BUILDING AS SHOWN ON SHEET E-103. SEAL CONDUIT PENETRATION THROUGH WALL WATERTIGHT WITH NON-SHRINK GROUT TO MATCH EXTERIOR BRICK COLOR.
- NEW PACKAGED ROOFTOP AIR CONDITIONING UNIT, SEE MECHANICAL PLANS. PROVIDE NEW WEATHERPROOF HEAVY DUTY FUSED SAFETY SWITCH, NEW WEATHERPROOF GFCI RECEPTACLE, AND NEW ELECTRICAL SERVICE AS SHOWN. PROVIDE FUSE SIZE IN ACCORDANCE WITH ROOFTOP UNIT NAMEPLATE. SEE SHEETS E-102 AND E-103 FOR CONDUIT PENETRATIONS THROUGH ROOF. FIELD COORDINATE SAFETY SWITCH LOCATION TO PROVIDE MINIMUM 3 FT WORKING CLEARANCE AND NOT BLOCK ANY ROOFTOP UNIT ACCESS PANELS.
- NEW ROOFTOP EXHAUST FAN, SEE MECHANICAL PLANS. PROVIDE NEW WEATHERPROOF MANUAL MOTOR STARTING SWITCH THERMAL PROTECTION, AND NEW ELECTRICAL SERVICE AS SHOWN. SEE SHEET E-103 FOR CONDUIT PENETRATION THROUGH ROOF.
- NEW F-1 FIXTURE MOUNTED ON NEW SCREEN WALL, SEE DETAIL C/E-104. SEE SHEET E-102 FOR CONTINUATION OF NEW CIRCUIT.
- PROVIDE NEW PHOTOCELL TO CONTROL NEW F-1 FIXTURES. INSTALL ON FIXTURE JUNCTION BOX AS SHOWN ON DETAIL C/E-104.



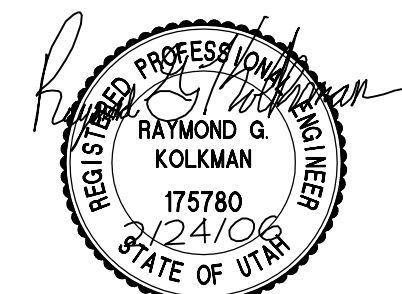
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Salt Lake City, Utah 84115  
Phone: 801-484-8161



### PROJECT TITLE:

## Ogden Armory- Roofing Improvements

### OWNER:

State of Utah-DFCM  
Utah National Guard  
Salt Lake City, Utah

2/22/06 ADDENDUM NO. 1

MARK DATE DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: JAN. 30, 2006

DFCM PROJECT NO: 05040470  
CONTRACT NO: 057039  
CAD PROJECT NO: N/A  
CAD DWG FILE: E-104.dwg  
ARCH PROJECT FILE: 0505.pj\0505.db\cps.dr  
DRAWN BY: W.B.G.  
CHK'D BY: R.G.K.  
COPYRIGHT: State of Utah

### SHEET TITLE

## ROOF ELECTRICAL PLAN, DETAILS, AND SCHEDULES

SHEET NUMBER

E-104

SHEET OF



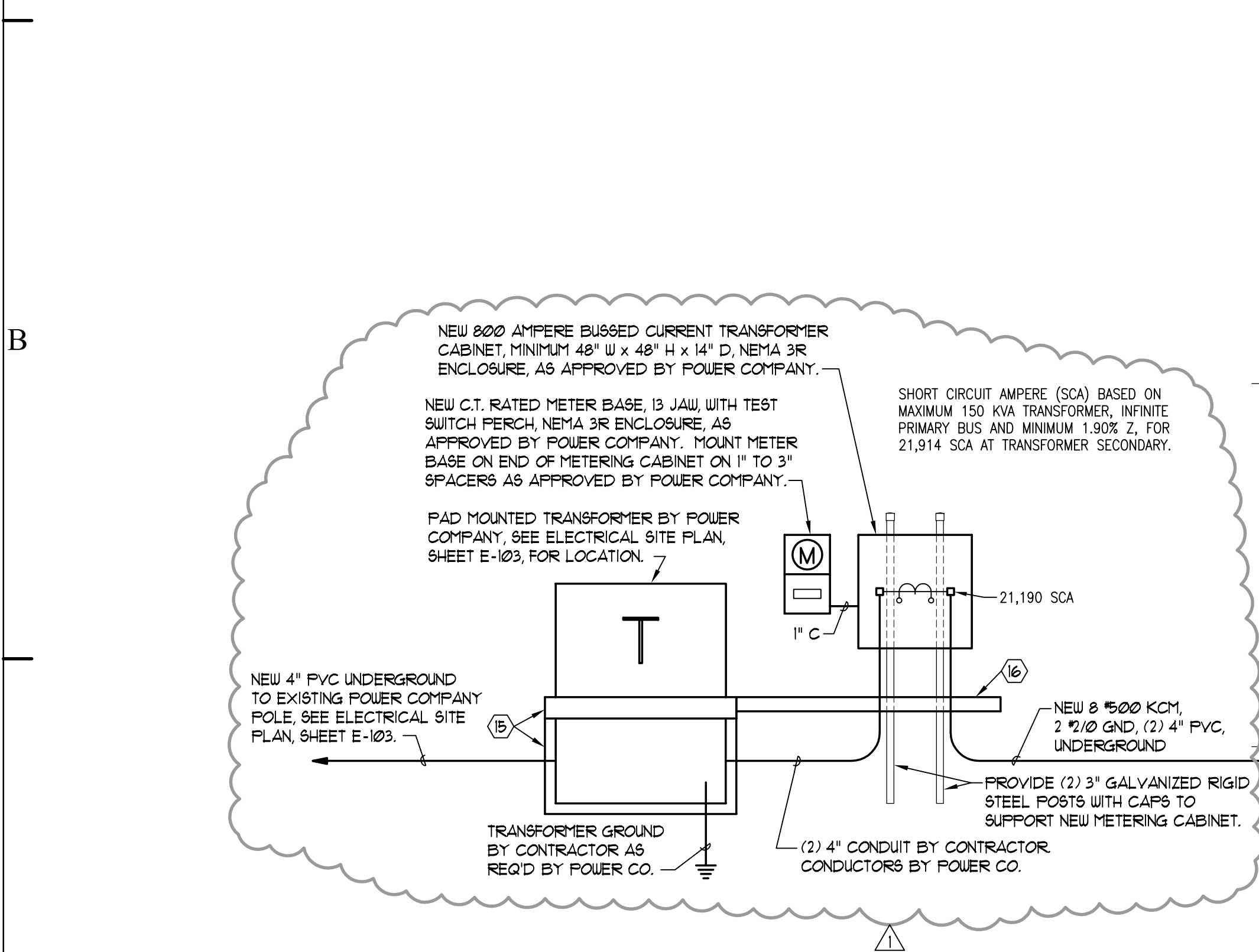
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2

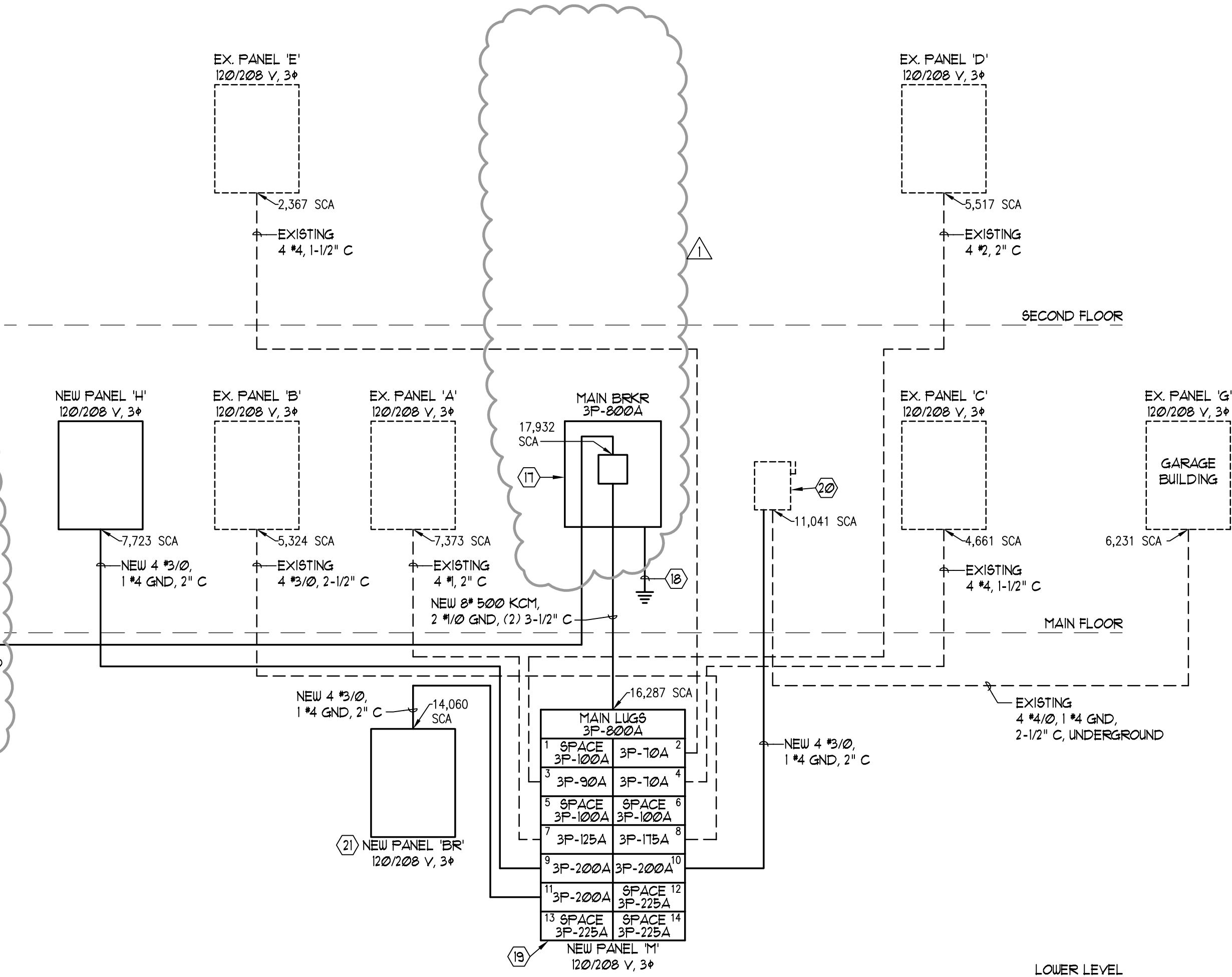
NEW PANEL 'M' TYPE 'I-LINE' 3 POLE 800 AMP MAIN LUGS										22,000 A.I.C., FULLY RATED 120/208 VOLT, 3 PHASE, 4 WIRE SURFACE MOUNTED									
CIR NO.	BRKR P	DESCRIPTION	IND. LTS	IND. REC	CIRCUIT LOAD	PHASE LOAD - VA			CIRCUIT LOAD	IND. REC	IND. LTS	DESCRIPTION	BRKR P	CIR NO.					
						PHASE A	PHASE B	PHASE C											
1	3	100 SPACE				5,730			5,730			PANEL 'E' * (NORTH BALCONY)	3	70 2					
-	-	-					4,580		4,580			-	-	-					
-	-	-						4,580				-	-	-					
3	3	90 PANEL 'D' * (SOUTH BALCONY)			9,810	16,320			6,510			PANEL 'C' * (SOUTH MAIN LEVEL)	3	70 4					
-	-	-				8,430		13,870	5,440			-	-	-					
-	-	-				7,580			4,520			-	-	-					
5	3	100 SPACE					0					SPACE	3	100 6					
-	-	-						0				-	-	-					
-	-	-										-	-	-					
7	3	125 PANEL 'A' * (EAST MAIN LEVEL)			10,460	26,560			16,100			PANEL 'B' * (NORTH MAIN LEVEL)	3	175 8					
-	-	-				11,000		24,510	13,510			-	-	-					
-	-	-				11,720			14,670			-	-	-					
9	3	200 NEW PANEL 'H'			17,070	33,770			16,700			PANEL 'G' * (SHOP BUILDING)	3	200 10					
-	-	-				16,810		34,310	17,500			-	-	-					
-	-	-				17,890			30,090			-	-	-					
11	3	200 PANEL 'BR' (BOILER ROOM)			10,330	10,330						SPACE	3	225 12					
-	-	-				11,890		11,890				-	-	-					
-	-	-				9,910			9,910			-	-	-					
13	3	225 SPACE					0					SPACE	3	225 14					
-	-	-						0				-	-	-					
-	-	-										-	-	-					
TOTAL CONNECTED LOAD:						264,940 VA		735 AMPS	FEEDER: 8 #500 KCM, 2 #1/0 GND,										
CALCULATED FEEDER DEMAND, NEC 220.87:						157,762 VA		438 AMPS	(2) 3-1/2" C										
* ESTIMATED LOAD FOR EXISTING PANELS BASED ON ORIGINAL BUILDING ELECTRICAL PLANS																			

ELECTRICAL LOAD CALCULATION				
LOAD DESCRIPTION	CONNECTED LOAD - VA	DEMAND FACTOR	CALCULATED DEMAND - VA	2005 NEC REFERENCE
EXISTING BUILDING DEMAND: 38 KW AT ESTIMATED 90% PF	42,222	125%	52,778	220.87
NEW FLAGPOLE FLOODLIGHTS	260	125%	325	215.3
NEW RECEPTACLES	1,260	>10 KVA @ 50%	1,260	220.44
LARGEST NEW MOTOR (RTU-3)	9,255	125%	11,569	430.24
OTHER NEW MOTORS (RTUs)	41,175	100%	41,175	430.24
NEW EXHAUST FAN EF-1, 1/6 HP	530	100%	530	430.24
EXISTING PANEL 'G'	46,400		50,125	220.40
TOTAL LOADS	141,102 VA		157,762 VA	
	392 AMPS		438 AMPS	
MINIMUM REQUIRED SERVICE SIZE:			450 AMPERE	
NEW SERVICE SIZE:			800 AMPERE	3

- NOTES:
- MAXIMUM 38 KW DEMAND FROM POWER COMPANY FOR PERIOD JUNE 2004 THROUGH MAY 2005 AT ESTIMATED 90% POWER FACTOR.
  - SHOP BUILDING PANEL 'G' RECONNECTED FROM EXISTING SEPARATE SERVICE TO NEW ELECTRICAL SERVICE.
  - NEW 800 AMPERE SERVICE PROVIDED TO ALLOW FUTURE ELECTRICAL LOAD ADDITIONS.



### A3 EXISTING POWER RISER DIAGRAM SCHEMATIC



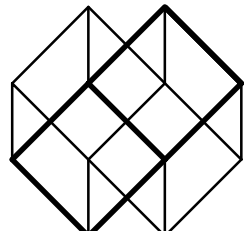
### A3 NEW POWER RISER DIAGRAM SCHEMATIC

### GENERAL NOTES:

- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
- DEMOLITION IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED CONDUIT WIRING, JUNCTION BOXES, OUTLETS, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
- TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.
- COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY PRIOR TO BEGINNING WORK.
- POWER OUTAGES TO THE EXISTING BUILDINGS WILL NOT BE ALLOWED EXCEPT AS DIRECTED BY OWNER. SUBMIT REQUESTS FOR POWER OUTAGES TO THE OWNER MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S PERMISSION.

### KEYED NOTES:

- EXISTING OVERHEAD SERVICE CABLE TO BE REMOVED BY POWER COMPANY.
- EXISTING CURRENT TRANSFORMERS AND METER TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO REMOVE ALL EXISTING WIRING, CONDUIT, AND ENCLOSURES ASSOCIATED WITH EXISTING METERING.
- REMOVE EXISTING SERVICE CONDUCTORS, WEATHERHEAD, ACCESSIBLE CONDUIT, ETC., COMPLETE. EXISTING CONDUIT CONCEALED IN EXTERIOR BRICK WALL MAY BE ABANDONED IN PLACE. PROVIDE CAP ON EXPOSED CONDUIT ON BUILDING EXTERIOR. PAINT EXISTING EXTERIOR EXPOSED CONDUIT TO MATCH WALL.
- REMOVE EXISTING 400 AMPERE MAIN PANEL 'M'. RETAIN EXISTING PANEL FEEDERS AS REQUIRED FOR CONNECTION TO NEW PANEL 'M'.
- REMOVE EXISTING #10 GROUNDING ELECTRODE CONDUCTOR. RECONNECT EXISTING BONDING CONNECTIONS TO MECHANICAL PIPING TO NEW GROUND BUS IN NEW MAIN BREAKER.
- REMOVE EXISTING 1P-20A FUSED SAFETY SWITCH FOR EXIT LIGHT CIRCUIT AND RECONNECT TO NEW PANEL 'BR'.
- REMOVE EXISTING 1P-20A ENCLOSED CIRCUIT BREAKER FOR BOILER CONTROL PANEL AND RECONNECT TO NEW PANEL 'BR'.
- EXISTING METER TO BE REMOVED BY POWER COMPANY. CONTRACTOR TO REMOVE EXISTING 200 AMPERE METER SOCKET.
- REMOVE EXISTING SERVICE MAST AND CONDUCTORS COMPLETE. REPAIR EXISTING EXTERIOR BRICK WALL AS REQUIRED TO MATCH SURROUNDING SURFACES.
- EXISTING 3P-200A, NEMA 3R, FUSED SAFETY SWITCH TO REMAIN. PROVIDE NEW CLOSURE PLATE IN TOP OF ENCLOSURE WHERE EXISTING OVERHEAD SERVICE CONDUIT IS REMOVED.
- REMOVE EXISTING #2 GROUNDING ELECTRODE CONDUCTOR COMPLETE INCLUDING ABANDONED CONDUIT.
- REMOVE EXISTING PANEL 'BR' AND FEEDER. RETAIN EXISTING BRANCH CIRCUITS FOR CONNECTION TO NEW PANEL 'BR' AT THE SAME LOCATION. SALVAGE EXISTING CIRCUIT BREAKERS FOR OWNER AND PLACE IN STORAGE AS DIRECTED BY OWNER.
- REMOVE EXISTING 2P-40A FUSED SAFETY SWITCH. RECONNECT EXISTING CIRCUIT TO NEW PANEL 'BR'. FIELD VERIFY LOAD SERVED AND INCLUDE ON NEW PANEL INDEX.
- REMOVE EXISTING 2P-60A FUSED SAFETY SWITCH. RECONNECT EXISTING CIRCUIT TO NEW PANEL 'BR'. FIELD VERIFY LOAD SERVED AND INCLUDE ON NEW PANEL INDEX.
- PRE-CAST CONCRETE VAULT WITH CONCRETE LID BY CONTRACTOR, AMCOR OR EQUAL APPROVED BY POWER COMPANY, IN ACCORDANCE WITH POWER COMPANY REQUIREMENTS. PROVIDE MINIMUM 6" CRUSHED GRAVEL BASE UNDER VAULT AND CONCRETE LID EXTENDING BEYOND VAULT.
- NEW CAST IN PLACE CONCRETE PAD BY CONTRACTOR ADJACENT TO NEW TRANSFORMER FOR METERING CABINET AND METER. PAD TO BE APPROXIMATELY 4'-0" x 6'-0" AND MINIMUM 4" THICK CONCRETE ON 6" THICK CRUSHED GRAVEL BASE. FIELD COORDINATE REQUIREMENTS WITH POWER COMPANY.
- NEW MAIN BREAKER, 3P-800A, 120/208 V, 3φ, 4W, 22,000 A.I.C., NEMA 3R ENCLOSURE WITH SEPARATE NEUTRAL AND GROUND BUSES, AND SERVICE ENTRANCE LABEL.
- NEW #1/0 GROUNDING ELECTRODE CONDUCTORS TO NEW GROUND RODS AND EXISTING WATER MAIN. SEE ELECTRICAL PLANS, SHEET E-101.
- INSTALL NEW PANEL 'M' TO REPLACE EXISTING PANEL 'M' AND RECONNECT ALL EXISTING PANELBOARD FEEDERS AS INDICATED.
- EXISTING 3P-200A, NEMA 3R, FUSED SAFETY SWITCH TO REMAIN. PROVIDE NEW FEEDER TO NEW PANEL 'M' AS INDICATED.
- INSTALL NEW PANEL 'BR' TO REPLACE EXISTING PANEL 'BR' AND RECONNECT ALL EXISTING BRANCH CIRCUITS. EXTEND AND RECONNECT EXISTING CIRCUITS SERVED BY SEPARATE SAFETY SWITCHES AND ENCLOSED BREAKERS INDICATED ON EXISTING POWER RISER DIAGRAM. SEE PANEL SCHEDULE, SHEET E-101, FOR QUANTITY OF EXISTING CIRCUITS.



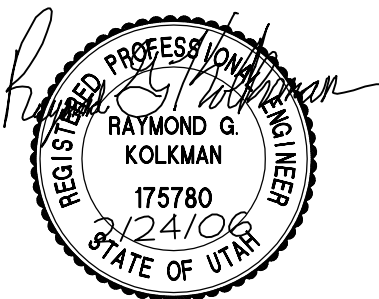
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64 West 1700 South  
Salt Lake City, Utah 84115  
Phone: 801-484-8161



### PROJECT TITLE:

## Ogden Armory- Roofing Improvements

### OWNER:

## State of Utah-DFCM Utah National Guard Salt Lake City, Utah

2/22/06 ADDENDUM NO. 1

MARK DATE DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: JAN. 30, 2006

DFCM PROJECT NO: 05040470  
CONTRACT NO: 057039  
CAD PROJECT NO: N/A  
CAD DWG FILE: E-601.dwg  
ARCH PROJECT FILE: 0505.pj\0505.db\cps.dr  
DRAWN BY: W.B.G.  
CHK'D BY: R.G.K.  
COPYRIGHT: State of Utah

### SHEET TITLE

## POWER RISER DIAGRAMS AND PANEL SCHEDULES

### SHEET NUMBER

# E-601

SHEET OF